Product datasheet

Anti-C1s antibody [M81] ab81707

Overview

Product name  Anti-C1s antibody [M81]
Description  Mouse monoclonal [M81] to C1s
Host species  Mouse
Specificity  ab81707 reacts around the binding site of C1s and reacts with both active and inactive C1s.
Tested applications  Suitable for: ICC/IF, WB, IP, ELISA, IHC-P, IHC-Fr, Functional Studies, Flow Cyt
Species reactivity  Reacts with: Human
Immunogen  The details of the immunogen for this antibody are not available.
Epitope  ab81707 reacts with an epitope on human C protein activated C1s, a subcomponent of the first component of C (C1). The epitope recognized by ab81707 is domain IV and/or V of the gamma domain of activated C1s.
Positive control  IHC-P: Human liver melanoma cells.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer  Constituents: 0.1% BSA, PBS
Purification notes  ab81707 is a purified, 0.2 µm filtered solution.
Clonality  Monoclonal
Clone number  M81
Isotype  IgG1

Applications

Our Abpromise guarantee covers the use of ab81707 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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</table>
**Function**

C1s B chain is a serine protease that combines with C1q and C1s to form C1, the first component of the classical pathway of the complement system. C1r activates C1s so that it can, in turn, activate C2 and C4.

**Involvement in disease**

Defects in C1S are the cause of complement component C1s deficiency (C1SD) [MIM:613783]. A rare defect resulting in C1 deficiency and impaired activation of the complement classical pathway. C1 deficiency generally leads to severe immune complex disease with features of systemic lupus erythematosus and glomerulonephritis.

**Sequence similarities**

Belongs to the peptidase S1 family.
Contains 2 CUB domains.
Contains 1 EGF-like domain.
Contains 1 peptidase S1 domain.
Contains 2 Sushi (CCP/SCR) domains.

**Post-translational modifications**

The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

### Applications

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/10 - 1/50. Predicted molecular weight: 55 kDa.</td>
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<td>IP</td>
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<td>Use at an assay dependent concentration.</td>
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<td>ELISA</td>
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<td>Functional Studies</td>
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### Target

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C1s antibody [M81] (ab81707) ab81707, at a dilution of 1/50, staining paraffin embedded human liver melanoma cells by Immunohistochemistry. Insert is isotype control.

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